

**WHAT IS CLAIMED IS:**

1. A dual platform communication controller for use with a wireless communication system, comprising:

a signal interpreter coupled to said wireless communication system and configured to recognize a first signal packet based on a first communication standard and a second signal packet based on a second communication standard; and

a traffic manager coupled to said signal interpreter and configured to provide a deterministic time-sharing between said first and second signal packets within said wireless communication system.

2. The controller as recited in Claim 1 wherein said first communication standard is configured to be IEEE 802.11.

3. The controller as recited in Claim 1 wherein said second communication standard is configured to be Bluetooth.

4. The controller as recited in Claim 1 wherein said traffic manager is configured to provide said deterministic time-sharing between said first and second signal packets based on a real-time requirement.

5. The controller as recited in Claim 1 wherein said traffic  
2 manager is configured to provide said deterministic time-sharing  
3 between said first and second signal packets based on a period of  
4 time.

6. The controller as recited in Claim 1 wherein said traffic  
2 manager is configured to provide said deterministic time-sharing  
3 between said first and second signal packets by inhibiting a  
4 transmission capability of at least one of said first and second  
5 signal packets.

7. The controller as recited in Claim 1 wherein said traffic  
2 manager is further configured to operate in a default state having  
3 a listening mode and a standby mode.

8. A method of controlling a dual platform communication for  
2 use with a wireless communication system, comprising:

3 recognizing a first signal packet based on a first  
4 communication standard and a second signal packet based on a second  
5 communication standard; and

6 providing a deterministic time-sharing between said first and  
7 second signal packets within said wireless communication system.

9. The method as recited in Claim 8 wherein said first  
2 communication standard is IEEE 802.11.

10. The method as recited in Claim 8 wherein said second  
2 communication standard is Bluetooth.

11. The method as recited in Claim 8 wherein said providing  
2 a deterministic time-sharing between said first and second signal  
3 packets is based on a real-time requirement.

12. The method as recited in Claim 8 wherein said providing  
2 said deterministic time-sharing between said first and second  
3 signal packets is based on a period of time.

13. The method as recited in Claim 8 wherein said providing  
2 said deterministic time-sharing between said first and second  
3 signal packets employs inhibiting a transmission capability of at  
4 least one of said first and second signal packets.

14. The method as recited in Claim 8 wherein said providing  
2 further provides operating in a default state having a listening  
3 mode and a standby mode.

15. A wireless communication system, comprising:

a first wireless network based on a first communication standard that employs a first wireless station and a first signal packet;

a second wireless network based on a second communication standard that employs a second wireless station and a second signal packet; and

a dual platform communication controller coupled to said first and second wireless networks, including:

a signal interpreter that recognizes said first signal packet based on said first communication standard and said second signal packet based on said second communication standard, and

a traffic manager, coupled to said signal interpreter, that provides a deterministic time-sharing between said first and second signal packets within said wireless communication system.

16. The system as recited in Claim 15 wherein said first communication standard is IEEE 802.11.

17. The system as recited in Claim 15 wherein said second communication standard is Bluetooth.

18. The system as recited in Claim 15 wherein said traffic  
2 manager provides said deterministic time-sharing between said first  
3 and second signal packets based on a real-time requirement.

19. The system as recited in Claim 15 wherein said traffic  
2 manager provides said deterministic time-sharing between said first  
3 and second signal packets based on a period of time.

20. The system as recited in Claim 15 wherein said traffic  
2 manager provides said deterministic time-sharing between said first  
3 and second signal packets by inhibiting a transmission capability  
4 of at least one of said first and second signal packets.

21. The system as recited in Claim 15 wherein said traffic  
2 manager further operates in a default state having a listening mode  
3 and a standby mode.